

Title (en)

HEAD CHIP, LIQUID JET HEAD, AND LIQUID JET RECORDING DEVICE

Title (de)

KOPFCHIP, FLÜSSIGKEITSSTRAHLKOPF UND FLÜSSIGKEITSSTRAHLAUFEZEICHNUNGSVORRICHTUNG

Title (fr)

PUCE DE TÊTE, TÊTE À JET LIQUIDE ET DISPOSITIF D'IMPRESSION À JET LIQUIDE

Publication

**EP 3663091 A1 20200610 (EN)**

Application

**EP 19212474 A 20191129**

Priority

JP 2018229310 A 20181206

Abstract (en)

A head chip capable of suppressing the degradation of the reliability, and a liquid jet head and a liquid jet recording device using the head chip are provided. The head chip includes an actuator plate having a plurality of ejection channels respectively communicated with nozzle holes and electrodes disposed on inner walls of the respective ejection channels, a bonded plate to be bonded to the actuator plate, and having a liquid contact surface which liquid entered the ejection channels has contact with, an adhesive layer disposed between the bonded plate and the actuator plate, and adapted to bond the bonded plate and the actuator plate to each other, and a protective film adapted to cover continuously from inner walls of the respective ejection channels to at least a part of the liquid contact surface via an end surface of the adhesive layer exposed on the ejection channel side.

IPC 8 full level

**B41J 2/14** (2006.01); **B41J 2/16** (2006.01)

CPC (source: CN EP US)

**B41J 2/01** (2013.01 - CN); **B41J 2/14** (2013.01 - CN); **B41J 2/14201** (2013.01 - US); **B41J 2/14209** (2013.01 - EP); **B41J 2/1433** (2013.01 - US); **B41J 2/1606** (2013.01 - EP US); **B41J 2/1609** (2013.01 - EP); **B41J 2/1623** (2013.01 - US); **B41J 2/1631** (2013.01 - EP); **B41J 2/1632** (2013.01 - EP); **B41J 2/1635** (2013.01 - EP); **B41J 2/164** (2013.01 - US); **B41J 2/1642** (2013.01 - EP); **B41J 2/175** (2013.01 - US); **B41J 2/18** (2013.01 - US); **B41J 2002/14306** (2013.01 - US); **B41J 2002/14362** (2013.01 - EP); **B41J 2002/14491** (2013.01 - EP US); **B41J 2202/12** (2013.01 - EP US); **B41J 2202/13** (2013.01 - US); **B41J 2202/19** (2013.01 - US); **B41J 2202/20** (2013.01 - US)

Citation (applicant)

JP 2016055544 A 20160421 - SII PRINTEK INC

Citation (search report)

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Cited by

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3663091 A1 20200610**; **EP 3663091 B1 20220504**; CN 111284135 A 20200616; CN 111284135 B 20221004; JP 2020090054 A 20200611; JP 7185512 B2 20221207; US 10967636 B2 20210406; US 2020180311 A1 20200611

DOCDB simple family (application)

**EP 19212474 A 20191129**; CN 201911241563 A 20191206; JP 2018229310 A 20181206; US 201916698139 A 20191127